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PredefinedDecisionHandler

Description

The PredefinedDecisionHandler is used in order to [steer a process](#). In other words, the user can determine an appropriate outlet for every XOR-gateway of the process instance ahead of time. As seen in the following example, the process course can also be determined ahead of time by means of the first XOR-gateway. All XOR-gateways thereafter act in accordance with the decision of the first.

Action Class

```
com.dooris.bpm.actionhandler.PredefinedDecisionHandler
```

Attributes of the XOR-Gateway

variableName

Here, an arbitrary variable name is given. If the same variable is used in every XOR-gateway, then the outcome chosen in the process route will be applied to every XOR-gateway (see example).

Process flow in TIM

After the first activity

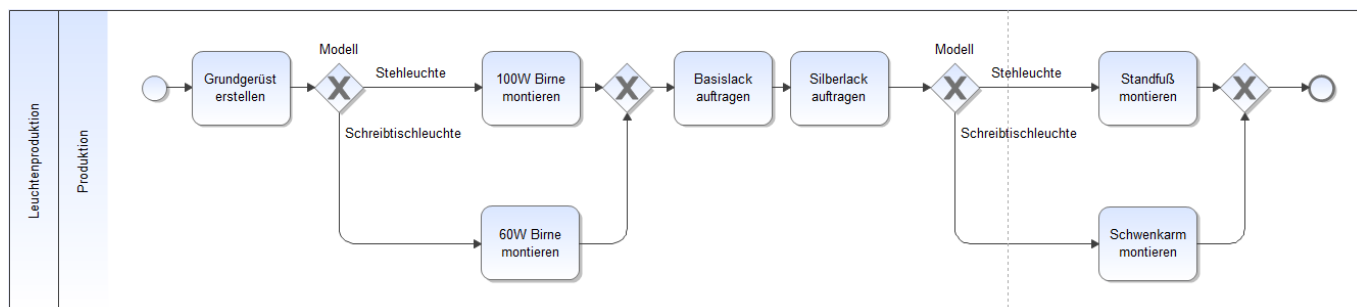
Outcomes

Meaningful (explanatory) names should be defined for the XOR-gateway outcomes. The IDs **must** be given.

Example - production process

The following example shows a fictitious process for manufacturing lamps. During production, either

floor lamps or desk lamps are produced. Using the PredefinedDefinitionHandler, the first XOR gateway can be used to steer the entire remaining process.



Deploying the handler

The PredefinedDecisionHandler is integrated into an XOR-gateway in a manner similar to the [VariableDecisionHandler](#). The action handler class is entered into the **Handler** text field. As described above, the handler needs the **variableName** parameter, which is given the value of **Modell** in the present example (see screenshot). The value of variableName can be chosen arbitrarily; however, it should convey information about its function. Lastly, the outcomes of the XOR-gateway must be defined. Here, it is again advisable to choose expressions that describe the pursued process path. In the case of the lamp-manufacturing process, **FloorLamp** and **DeskLamp** were chosen.

Symboleigenschaften - Modell

Symbol	Handler:
BPMN-Anleitung	com.dooris.bpm.actionhandler.PredefinedDecisionHandler
Modellierung	
Eingaben	
Ressourcen	
Aufgabe	
Ausgaben	
Attribute	
Letzte Simulation	
Sonstige	
Allgemein	
Verknüpfungen	
Benutzerdefinierte Daten	
Risiken	
Messgrößen	
RACI	
Automatisierung	
Enterprise	
Beschreibt	

Parameter:

Name	Value
variableName	Modell

Ausgänge:

Name	ID
Stehleuchte	Stehleuchte
Schreibtischleuchte	Schreibtischleuchte

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Configuring additional XOR-gateways

In order to assure that the process route can be steered using the first XOR-gateway, the second XOR-gateway must be configured accordingly. In the lamp-manufacturing process, either a floor lamp or a desk lamp should be produced. Hence, the second XOR gateway contains the same parameters as the first XOR-gateway (see screenshot).

Symboleigenschaften - Modell

Symbol

BPMN-Anleitung

Modellierung

Eingaben

Ressourcen

Aufgabe

Ausgaben

Attribute

Letzte Simulation

Sonstige

Allgemein

Verknüpfungen

Benutzerdefinierte Daten

Risiken

Messgrößen

RACI

Automatisierung

Enterprise

Beschreibt

Handler:

Parameter:

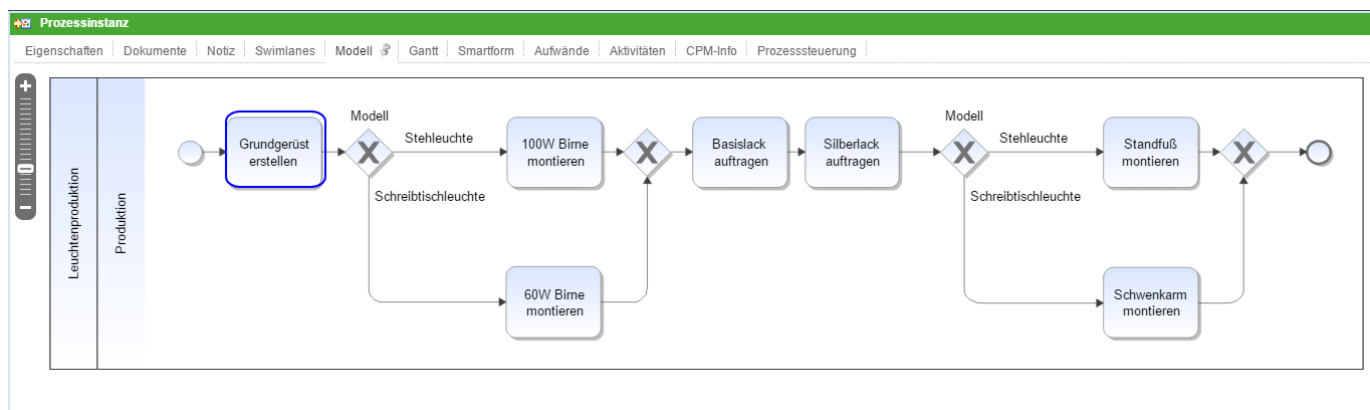
Name	Value
variableName	Modell

Ausgänge:

Name	ID
Stehleuchte	Stehleuchte
Schreibtischleuchte	Schreibtischleuchte

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Controlling the process in TIM



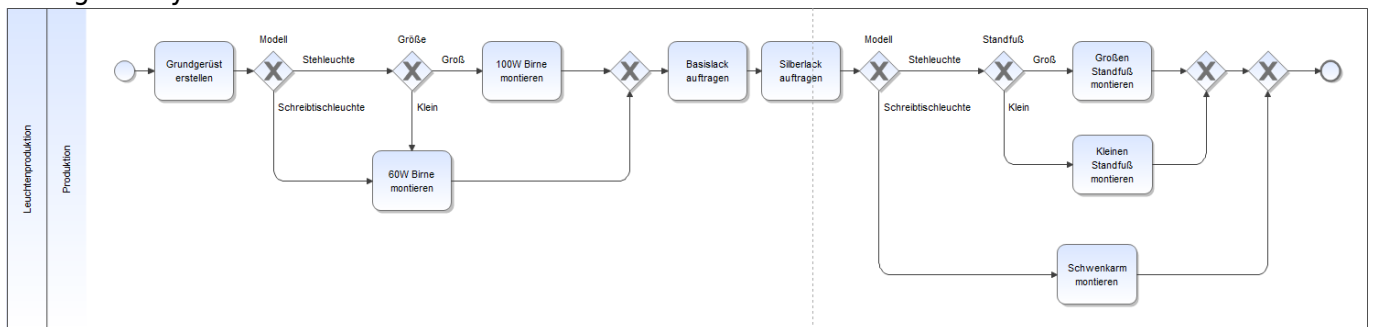
After the process begins, the desired process path is chosen via the [process controlling](#) in the process manager client. In the lamp-manufacturing example, the decision pertains to choosing if a floor lamp

or a desk lamp should be produced.

Once the process reaches the second gateway, the decision made at the first gateway is repeated.

Special case: multiple decisions

In a new version of the lamp manufacturing process, floor lamps with a 100W lightbulb and a large base are available as well as lamps with a 60W lightbulb and a small base. For this, two additional XOR-gateways are needed.



Both of the new XOR-gateways are connected using the PredefinedDecisionHandler; the decision concerning the size of the lamp affects the selection of the lamp-base type.

Process controlling in TIM

In the Process Controlling tab, two variables must be created; these are named **Model** and **Size** (see screenshot)

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Last update: 2021/07/01 09:52

